

OPERATORY WATER DISINFECTION SYSTEM

Abstract

This ozone appliance for the professional dental office and other medical applications introduces dissolved ozone into dental and surgical
5 operatory water lines. This dissolved ozone can not only disinfect
water and water lines; it can also reduce gum bleeding, gingivitis, bad
breath, teeth stains and oral bacteria. Additionally, it can aid in wound
disinfection in surgery and attack microbial contamination of water
from dental and surgical operatory water lines and attached hand
10 pieces and dispensing devices by automatically killing waterborne germs
and destroying biofilms where germs can hide and grow. It can,
therefore, be used to disinfect water lines in dental operations and for
other medical applications such as providing liquid containing ozone for
cleaning and disinfecting skin prior to surgery (and tissue exposed
15 during surgery). Further, a unit connected to operatory water lines
can give an audible or other alarm if the water becomes unsafe.